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=> d his

     (FILE 'HOME' ENTERED AT 12:14:58 ON 23 JUL 2001)

     FILE 'EUROPATFULL, PCTFULL, USPATFULL, WPIDS' ENTERED AT 12:15:33 ON 23
     JUL 2001
L1          724 S GLAXO WELLCOME/PA
                E WELLCOME/PA
                E GLAXO/PA
L2           50 S (GLAXO/PA OR WELLCOME/PA)(L)(LAMIVUDINE OR
(AMINO(6W)HYDROXYM
L3           50 DUP REM L2 (0 DUPLICATES REMOVED)
L4           19 S L3 NOT PY>=1998
L5            4 S L4(L)(HBV OR HEPATITIS)
L6            0 S L4(L)(ADEFOVIR OR PHOSPHONOMETHOXY(2W)ETHYL(2W)ADENINE)
L7            4 S L3(L)(ADEFOVIR OR PHOSPHONOMETHOXY(2W) ETHYL(2W) ADENINE)
L8          476 S ADEFOVIR OR PHOSPHONOMETHOXY(2W)ETHYL(2W)ADENINE OR PMEA
L9            9 S L8(L)L3

     FILE 'INPADOC' ENTERED AT 12:41:57 ON 23 JUL 2001
L10           1 S WO9852949/PN

     FILE 'EUROPATFULL, PCTFULL, USPATFULL, WPIDS' ENTERED AT 12:43:27 ON 23
     JUL 2001
L11         201 S L8(L)(HBV OR HEPATITIS)
L12          44 S L11 NOT PY>=1998
L13         100 S ADEFOVIR(2A)DIPIVOXIL
L14          45 S L13(L)(HBV OR HEPATITIS)
L15           1 S L14 NOT PY>=1998

     FILE 'USPATFULL' ENTERED AT 13:20:22 ON 23 JUL 2001
L16          12 S (ADEFOVIR OR PHOSPHONOMETHOXY(2W)ETHYL(2W)ADENINE OR
PMEA)(S)
L17           1 S L16 NOT PY>=1998
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L7 4 L3(L)(ADEFOVIR OR PHOSPHONOMETHOXY(2W) ETHYL(2W) ADENINE)

=> d ibib 1-4

L7 ANSWER 1 OF 4 PCTFULL COPYRIGHT 2001 MicroPatent
ACCESSION NUMBER: 2000064427 PCTFULL EW 200044 ED 20001124
TITLE (ENGLISH): PHARMACEUTICAL FORMULATION
TITLE (FRENCH): FORMULATION PHARMACEUTIQUE
INVENTOR(S): KAWAMURA, Koho; MARUYAMA, Toshio; MISHIMA, Yasuhiro; SUGIBAYASHI, Nobuya
PATENT ASSIGNEE(S): **GLAXO WELLCOME** KABUSHIKI KAISHA
LANGUAGE OF PUBL.: English
LANGUAGE OF FILING: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2000064427	A2	20001102

DESIGNATED STATES: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
APPLICATION INFO.: WO 2000-JP2572 20000420
PRIORITY (ORIGINAL): GB 1999-9909154.8 19990422

L7 ANSWER 2 OF 4 PCTFULL COPYRIGHT 2001 MicroPatent
ACCESSION NUMBER: 2000016755 PCTFULL EW 200013 ED 20000428
TITLE (ENGLISH): ANTIVIRAL COMBINATIONS
TITLE (FRENCH): COMBINAISONS ANTIVIRALES
INVENTOR(S): BROWN, Nathaniel, A.; CONDREAY, Lynn, D.; GRAY, Douglas, Fraser; RUBIN, Marc
PATENT ASSIGNEE(S): **GLAXO** GROUP LIMITED
LANGUAGE OF PUBL.: English
LANGUAGE OF FILING: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2000016755	A2	20000330

DESIGNATED STATES: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
APPLICATION INFO.: WO 1999-EP6886 19990917
PRIORITY (ORIGINAL): GB 1998-9820420.9 19980918

L7 ANSWER 3 OF 4 PCTFULL COPYRIGHT 2001 MicroPatent
ACCESSION NUMBER: 1999064001 PCTFULL
TITLE (ENGLISH): METHODS AND COMPOSITIONS FOR INCREASING PENETRATION OF

HIV
PROTEASE INHIBITORS

TITLE (FRENCH): METHODES ET COMPOSITIONS DESTINEES A ACCROITRE LA PENETRATION DES
INHIBITEURS DE LA PROTEASE DU VIH

INVENTOR(S): BROUWER, Kenneth, Russell; POLLI, Joseph, William
PATENT ASSIGNEE(S): **GLAXO** GROUP LIMITED
LANGUAGE OF PUBL.: English
LANGUAGE OF FILING: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

NUMBER	KIND	DATE
WO 9964001	A2	19991216

DESIGNATED STATES: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

APPLICATION INFO.: WO 1999-EP3827 19990603
PRIORITY (ORIGINAL): GB 1998-9812189.0 19980605

L7 ANSWER 4 OF 4 PCTFULL COPYRIGHT 2001 MicroPatent
ACCESSION NUMBER: 1998052949 PCTFULL
TITLE (ENGLISH): CARBOCYCLIC NUCLEOSIDE HEMISULFATE AND ITS USE IN TREATING VIRAL
INFECTIONS
TITLE (FRENCH): HEMISULFATE DE NUCLEOSIDE CARBOCYCLIQUE ET SON UTILISATION DANS
LE TRAITEMENT D'INFECTIONS VIRALES

INVENTOR(S): BRODIE, Alastair, Couper; JONES, Martin, Francis; SEAGER, John, Frederick; WALLIS, Christopher, John
PATENT ASSIGNEE(S): **GLAXO** GROUP LIMITED
LANGUAGE OF PUBL.: English
LANGUAGE OF FILING: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

NUMBER	KIND	DATE
WO 9852949	A1	19981126

DESIGNATED STATES: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

APPLICATION INFO.: WO 1998-EP2835 19980514
PRIORITY (ORIGINAL): GB 1997-9709945.1 19970517

L15 ANSWER 1 OF 1 PCTFULL COPYRIGHT 2001 MicroPatent
ACCESSION NUMBER: 1997044063 PCTFULL
TITLE (ENGLISH): DHAPHARMACEUTICAL AGENT CONJUGATES
TITLE (FRENCH): CONJUGUES D'ACIDE CIS DOCOSAHEXANOIQUE ET
D'AGENTS
PHARMACEUTIQUES
INVENTOR(S): BRADLEY, Matthews, O.; SHASHOUA, Victor, E.; WEBB, Nigel, L.; SWINDELL, Charles, S.
PATENT ASSIGNEE(S): NEUROMEDICA, INC.
LANGUAGE OF PUBL.: English
LANGUAGE OF FILING: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

NUMBER	KIND	DATE
WO 9744063	A2	19971127

DESIGNATED STATES: AU CA JP AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE
APPLICATION INFO.: WO 1997-US8867 19970522
PRIORITY (ORIGINAL): US 1996-08/651312 19960522

DETD . . . Antirabies Serum; Antivenin (Latrodectus mactans); Antivenin (Micrurus Fulvius); Antivenin (Crotalidae) Polyvalent; KG Vaccine; Botulism Antitoxin; Cholera Vaccine; Diphtheria Antitoxin; Diphtheria Toxoid; DiplitheriaToxoid Adsorbed; Globulin, Immune; **Hepatitis** B Immune Globulin; **Hepatitis** B Virus Vaccine Inactivated; Influenza Virus Vaccine; Measles Virus Vaccine Live; Meningococcal Polysaccharide Vaccine Group A; Meningococcal Polysacchariide Vaccine Group C; Mumps Virus Vaccine. . .
. . .
acarbose; aceclofenac; acemannan; acetoniepregenol; acety 1 -L-carn i tine; acetylcystelne, N-. acetylmethadol; acifran; acipimox; acitemate; acitretin; aclarubicin; aciatonium; napadisilatc; acomazide; acrivastinet; adafenoxate; adapalene; adatanserin; adecypenol; **adefovir dipivoxil**; adelmidrol; ademetionine; adinazolam; adiposin; adozelesin; adrafinil; alacepril; aladapcin; alaptide; affiendazole; albolabrin; aldecalmycin; aldesleukin; alendronic acid; alentemol; alfacalcidol. alfuzosin; aiglucerase; aiiiidstine; alosetron; alpha idosone. alprostadil. altretailline; altromycin. . .

L17 ANSWER 1 OF 1 USPATFULL
ACCESSION NUMBER: 97:38508 USPATFULL
TITLE: Phosphorous prodrugs and therapeutic delivery systems using same
INVENTOR(S): Glazier, Arnold, Newton, MA, United States
PATENT ASSIGNEE(S): Drug Innovation & Design, Inc., Newton, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5627165		19970506
APPLICATION INFO.:	US 1994-310972		19940923 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1991-714130, filed on 11 Jun 1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-537332, filed on 13 Jun 1990, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Wilson, James O.
LEGAL REPRESENTATIVE: Hamilton, Brook, Smith & Reynolds, P.C.
NUMBER OF CLAIMS: 38
EXEMPLARY CLAIM: 1,36
NUMBER OF DRAWINGS: 20 Drawing Figure(s); 9 Drawing Page(s)
LINE COUNT: 2020
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
DETD The **PMEA** prodrug was tested for its ability to inhibit **hepatitis B** viral replication by an in vitro assay as previously described by Korba. Chronically **hepatitis B** producing human hepatocyte (2.2.15 cells) were grown to confluence in microtitre wells. Test compounds were added daily for a 9 day period. The culture medium was changed daily and stored for quantitation of extracellular **hepatitis B** viral (**HBV**) DNA on days 0, 3, 6, and 10. On day 10 the cells were lysed and the intracellular **HBV** episomal monomeric DNA and **HBV** replicative intermediates (RI) were quantitated. Toxicity of test compounds was assayed by treating confluent monolayers of the hepatocyte with graded. . .
DETD

Antiviral Activity of **PMEA** Prodrug 7-a

Viral	Prodrug **PMEA**	Prodrug **PMEA**	Prodrug	Prodrug
Assay	EC50	EC50	CC50	CC50/-EC50
				Potency
HIV 1 CPE	.32*	>20	2.4	>20	7.5	>62.5
HSV1 CPE	.06	68.5				

1030

			76.	.	.	Plaque	
	2.25	52	>125	>366			
					>55	>23	
HSV2 Plaque							
	4.4	215	>125	>366			
					>28	48	
HCMV Plaque							
	3.1	12.4					
			19	>366			
					6	4	
HBV Virion							
	1.6	4.3	587	235	366	2.7	
HBV RI*	3.0	8.2	587	235	195	2.7	

DETD

Antiviral Activity of **PMEA** Prodrug 7-b

Viral Assay	Prodrug **PMEA** EC50	Prodrug **PMEA** EC50	Prodrug **PMEA** CC50	Prodrug **PMEA** CC50	Prodrug **PMEA** CC50/-EC50	Prodrug **PMEA** Potency
HIV 1 CPE	.006*					
		>20	.85	>20	141	>33005
HSV1 CPE						
	.63	68.5				
			52.9.	.	.	Plaque

L12 ANSWER 34 OF 44 USPATFULL

ACCESSION NUMBER:	97:71178 USPATFULL
TITLE:	Nucleotide analogs
INVENTOR(S):	Bischofberger, Norbert, San Carlos, CA, United States Jones, Robert J., Millbrae, CA, United States Arimilli, Murty, Fremont, CA, United States Lin, Kuei-Ying, Fremont, CA, United States Louie, Michael, Burlingame, CA, United States McGee, Lawrence R., Pacifica, CA, United States Prisbe, Ernest J., Los Altos, CA, United States
PATENT ASSIGNEE(S):	Gilead Sciences, Inc., Foster City, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 5656745		19970812	
APPLICATION INFO.:	US 1993-123483		19930917	(8)

DOCUMENT TYPE:	Utility
FILE SEGMENT:	Granted
PRIMARY EXAMINER:	Wilson, James O.
LEGAL REPRESENTATIVE:	Muenchau, Daryl D.
NUMBER OF CLAIMS:	29
EXEMPLARY CLAIM:	1
NUMBER OF DRAWINGS:	7 Drawing Figure(s); 7 Drawing Page(s)
LINE COUNT:	3679

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

10301

bis-ester to a corresponding mixed ester-phosphoroamidate compound.

DETD . . . --O--C#H(CH.sub.2 N.sub.3)--CH.sub.2 --B, ##STR20## where C#, R.sup.25 -R.sup.29, R.sup.31 and B have the meanings previously defined with the proviso that **PMEA** bis(4-nitrobenzyl ester) and **PMEA** bis(4-trifluoromethyl ester) are excluded and for structure XXIX, R.sup.29 and R.sup.25 are both O. Additional ester and nucleotide compounds are. . .

DETD Exemplary bis esters include bis(pivaloyloxymethyl)**PMEA** (i.e. bis(pivaloyloxymethyl)-9-(2-phosphonylmethoxyethyl)adenine), bis(pivaloyloxymethyl)HPMPC, bis(pivaloyloxymethyl)D4AMPI, bis(pivaloyloxymethyl)D4TMPI, bis(N-ethylmorpholino)**PMEA**, bis(N-ethylmorpholino)HPMPC, bis(N-ethylmorpholino)PMPDAP, bis(N-ethylmorpholino)HPMPA, bis(N-ethylmorpholino)PMEG, bis(N-ethylmorpholino)D4AMPI, bis(N-ethylmorpholino)D4TMPI, bis(phenyl)**PMEA**, bis(phenyl)HPMPC, bis(phenyl)HPMPA, bis(phenyl)D4AMPI, bis(phenyl)D4TMPI, bis(t-butyl)**PMEA**, bis(t-butyl)D4AMPI, bis(t-butyl)D4TMPI, bis(t-butyl)HPMPC, bis(2-ethoxyphenyl)**PMEA**, bis(2-ethoxyphenyl)HPMPC,, bis(4-fluorophenyl)**PMEA**, bis(4-fluorophenyl)HPMPC, bis(3,5-dimethoxyphenyl)**PMEA**, bis(3,5-dimethoxyphenyl)HPMPC and the like.

DETD The compounds of structural formula Id shown are in Table 6 (bis(glycyl benzyl ester)**PMEA** (compound Ex 4), bis(alanyl benzyl ester) **PMEA** (Ex 1), bis(phenylalanyl benzyl ester)**PMEA** (Ex 5), etc. Compounds Ex 1-Ex 12 were synthesized by the following procedure. **PMEA** (Z--B.dbd.--CH.sub.2 --O--CH.sub.2 --CH.sub.2 --B, where B is adenin-9-yl) (0.3 g; 1.1 mmol) and amino acid ester.multidot.HCl (2.2 mmol; Sigma) were. . .

DETD . . . using freshly prepared triphenylphosphine (6.0 mmol) and